3 inches the annual precipitation for 1904 and 1919, the wettest years of record.

The peak of the high water in the Pecos River reached Pecos, Tex., on September 30 with a stage somewhat in excess of 14.9 feet, flooding east Pecos.

In the Rio Grande, flood stages were exceeded at a number of places from Del Rio, Tex., to the mouth during the month. At Del Rio a crest of 17.3 feet was reached on September 18, and at Eagle Pass, Tex., a crest stage of 19.7 feet on the 19th. In the extreme lower Rio Grande from Mercedes, Tex., to the mouth the river was above the flood level from the 11th to the 24th. However, very little water overflowed on the American side of the river, being held back by private levees. No appreciable

damage resulted. Gulf of California drainage.—The storm of the 28th-29th brought heavy rains in the tributaries of the upper Gila River above Coolidge Dam and caused one of the worst floods ever experienced in Duncan, Ariz. and vicinity, and high water in the Safford, Ariz., area. The crest of the flood reached Duncan on the evening of the 29th, inundating a large part of the residential areas and farm land. Damages to homes, crops, and farm land along the Gila from Duncan to Coolidge Dam have been conservatively estimated at \$500,000.

A more complete report of the floods in New Mexico and Arizona will be given in a later issue of the Review.

## ESTIMATED FLOOD LOSSES AND SAVINGS FOR SEPTEMBER 1941

River and drainage	Tangi- ble prop- erty	Ma- tured crops	Pros- pective crops	Live- stock and other mov- able farm prop- erty	Sus- pen- sion of busi- ness	Total losses	Total savings
Upper Mississippi Basia							
Chippewa River LaCrosse River and Coon Creek (Monroe and LaCrosse Coun-	\$950 <b>, 0</b> 00	\$20,000	\$10,000	\$10,000	\$10,000	\$1,000,000	\$250,000
ties, Wis.)	65, 000	المحججين	1,000 2,200			66,000	
Wisconsin River	250,000	16, 600	2, 200	450	21,700	290, 950	66,000
quoketa Rivers (Iowa).	128,000	165, 000	337,000	10,000	1,000	641, 000	2,000
Missouri Basin							
Solomon River. Smoky Hill River. Big Blue River.	9, 500 7, 000 2, 500	4, 500 13, 000 35, 000	6,000	9,000			2,000
Arkansas Basin							
Cottonwood River Neosho River Walnut River	56, 500 50, 000 75, 000	37, 000 48, 000 90, 000	14, 500 55, 000 10, 000	5,000	1, 200	159, 200	20,000
WEST GULF OF MEXICO							
Pecos River 1					<del>-</del>	2 1,000,000	
GULF OF CALIFORNIA					1		
Gila River						500, 000	

## FLOOD-STAGE REPORT, SEPTEMBER 1941

[All dates in September unless otherwise specified]

River and station	Flood stage	Above stages—		Crest	
	stage	From-	То-	Stage	Date
MISSISSIPPI SYSTEM					
Upper Mississippi Basia					
Chippewa: Holcombe, Wis Durand, Wis	Feet 22 11	Aug. 30	8 7	Feet 31, 6 15, 45	1 2
Whitewater: Beaver, Minn		16	16	89. 9	16
Knowlton, Wis	12	Aug. 31 5 17	3 6 17	20. 5 13. 0 12. 2	1-2 6 17
Wisconsin Rapids, Wis	12 17 8 8	2 6 8 12 8	3 6 10 15 8	12.8 17.3 22.1 10.1 8.45	3 6 10 14 8
Le Claire, Iowa	10	$\begin{cases} 10 \\ 14 \end{cases}$	$\frac{12}{18}$	10. 1 10. 3	11 16
Louisiana, Mo	12	(2)	(2)	{ 12. 2 12. 4	8-9 19-20
Missouri Basin Solomon:					_
Beloit, Kans Niles, Kans Saline: Tescott, Kans	18 24 25	$   \left\{                                  $	7 17 10 7	28. 9 24. 6 24. 4 27. 4	5 16 10 7
Smoky Hill: Ellsworth, Kans Lindsborg, Kans Salina, Kans Enterprise, Kans Republican:	20 21 20 26	2 2 4 8	2 5 7 10	21, 35 28, 3 22, 7 26, 85	2 4 6 9
Cluide Rock, Nebr Scandia, Kans Concordia, Kans Clay Center, Kans	9 10 8 15	5 15 15 16	5 15 15 16	9. 4 10. 6 8. 2 15. 3	5 15 15 16
Little Blue: Endicott, Nebr Hanover, Kans	11 14	15 16	17 18	14. 7 18. 5	16 17
Big Blue: Beatrice, Nebr. Barnston, Nebr. Blue Rapids, Kans. Randolph, Kans. Osage: Lakeside, Mo.	16 18 20 20 60	15 15 16 17 14 18	17 18 18 19 15	26. 3 27. 3 28. 6 24. 1 60. 0 60. 0	16 16 18 19 14-15
Arkansas Basin				J	•
Cottonwood: Emporia, Kans Neosho:	20	6	11	25.4	7
Neosho Rapids, Kans Le Roy, Kans Lola, Kans Chanute, Kans Parsons, Kans Oswego, Kans	22 23 15 20 22 17	8 10 6 7 8 8	11 13 13 14 16 16	23. 7 23. 9 3 20. 5 26. 0 26. 2 23. 0	10 12 3 6 8 11 11
North Canadian: Woodward, Okla Canton, Okla Yukon, Okla Canadian:	5 9 8	25 25 2	25 26 (4)	5. 2 9. 4 13. 0	25 26 28
Canadian, Tex Union, Okla	5 6	$   \left\{ \begin{array}{c}     23 \\     30 \\     24   \end{array} \right. $	25 30 25	7. 0 5. 0 8. 6	24 30 25
WEST GULF OF MEXICO DRAINAGE	İ				
Nueces: Three Rivers, Tex	37 13	18 24	(*)	41.4 514.9	19 30
Del Rio, Tex Eagle Pass, Tex Rio Grande City, Tex Mercedes, Tex Brownsville, Tex	15 16 21 21 21 18	18 19 11 12 22 23	18 19 11 14 24 24	17. 3 19. 7 21. 6 22. 6 22. 2 18. 2	18 19 11 13 23 24

<sup>&</sup>lt;sup>1</sup> 15 lives lost.
<sup>2</sup> Incomplete.

Approximate.
 Occasionally above flood stage due to manipulations of dams Nos. 22 and 24.
 Secondary crest occurred on the 11th.
 Continued into following month.
 Crest somewhat higher; water too high to read gage.